38. A square is circumscribed about a circle of 7 -foot radius, as shown below. What is the area of the square, in square feet?
F. 49
G. 56
H. 98
(F. $196 \pi$

39. The ratio of the side lengths for a triangle is exactly 12. 14: 5. In a second triangle similar to the first, the shortes-oide is 8 niches long. To the nearest tenth of an inch, what is the length of the longest side of the second triangle?
B. 11.0
B. 10.0
(e. 9.3

D. 6.4
E. Cannot be determined from the given information
40. In the figure below, $A B C D$ is a trapezoid, $E$ lies on $\overleftrightarrow{A D}$, and angle measures are as marked. What is the measure of $\angle B D C$ ?

F. $15^{\circ}$
G. $25^{\circ}$
H. $30^{\circ}$
(K. $45^{\circ}$
$30+x+105=180$
$x=45$
41. In the figure shown below, each pair of intersecting line segments meets at a right angle, and all the lengths given are in inches. What is thy nerimeter, in inches, of the figure?
A. 40
B. 52.14
C. 56

D 66
(2. 80
$14+26+14+26=80$
42. Of the 804 graduating seniors in a certain high school, approximately $\frac{2}{5}$ ae going to college and approximately $\frac{1}{h}$ of those going to college are going to a state university. Which of the following is the closest estimate for how many of the graduating seniors are going to a state university?
G. 90
H. 160
J. 200
K. 320

$\square$
43. If $x$ and $y$ are positive integers such that the greatest common factor of $x^{2} y^{2}$ and $x y^{3}$ is 45 , then which of the following could $y$ equal?
A. 45
B. 15
C. 9

$\square$
44. If $115 \%$ of a number is 460 , what is $75 \%$ of the number?
F. 280
G. 300
I. 320
J. 345
K. $400 \quad$ : $15 x=460$


$=300$
45. What is the distance in the standard $(x, y)$ coordinate plane between the points $(1,0)$ and $(0,5)$ ?
A. 4
B. 6
C. 16
E. $\sqrt{26}$
$d=\sqrt{(1-0)^{2}+(0-5)^{2}}$

